



Please type a plus sign (+) inside this box ☐

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for PTO/SB/O&A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for Form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheet as necessary)

Complete if Known

Application Number	10/645,913
Filing Date	August 21, 2003
First Named Inventor	Michael M. GRUNSTEIN
Group Art Unit	1641
Examiner Name	Not yet known
Attorney Docket Number	T1118/20102

Sheet 1 of 7

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
MS		5,334,702	8/2/94	GREENE et al.	
		5,676,930	10/14/97	JAGER et al.	
		5,994,514	11/30/99	JARDIEU et al.	
		6,011,138	1/4/00	REFF et al.	
MS		6,019,968	2/1/00	PLATZ et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T
		Office	Number	Kind Code (if known)			
MS			WO 94/17810	PCT	PLOTKIN et al.	8/94	
			WO 94/ 23744	PCT	PLOTKIN et al.	10/94	
			WO 97/04807	PCT	FICK et al.	2/97	
			WO 00/72879	PCT	DEBOER et al.	12/00	
			WO 96/12741	PCT	BONNEFOY et al.	5/96	
			WO 95/02693	PCT	PAYNE et al.	2/96	
MS			EP95/02693	EP	CHRISTIE	02/96	

OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
MS		AUBRY et al., 1992, Nature 358:505-507	
		BAI, 1990, Am. Rev. Respir. Dis. 141:552-557	
		BARBAS, 1995, Nature Medicine 1:837-839	
		BARNES et al., 1988, Pharmacol. Rev. 40:49-84	
		BEASLEY et al., 1989, Am. Rev. Respir. Dis. 139:806-817	
		BEAVEN et al., 1993, Immunol. Today 14:222-226	
		BORISH et al., 1991, J. Immunol. 146:63-67	
		BURROWS et al., 1995, J. Allergy Clin. Immunol. 95:548-556	
		BURROWS et al., 1995, Am. J. Respir. Crit. Care Med. 152:1497-1500	
MS		BURROWS et al., 1992, N. Engl. J. Med. 326:560-561	

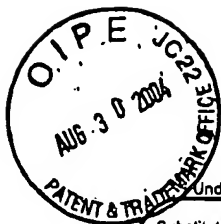
EXAMINER

/Michael Szperka/

DATE CONSIDERED

09/18/2006

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



PTO/SB/08B (08-03)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/645,913
		Filing Date	August 21, 2003
		First Named Inventor	Michael M. GRUNSTEIN
		Art Unit	1641
		Examiner Name	Not yet Known
Substitute for form 1449/PTO	Sheet 2 of 7	Attorney Docket Number	T1110/20102

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS		BURTON et al., 1994, Adv. Immunol. 57:191-280	
		CAPEL et al., 1994, Immunometh. 4:25-34	
		CAPRON et al., 1984, J. Immunol. 132:462-468	
		CHIHARA et al., 1991, Annal. Allergy. 67:429	
		CHOMCYZNSKli et al., 1987, Anal. Biochem. 162:156-159	
		COHEN, 1993, Science 259: 1691-1692	
		CONROY et al, 1977, J. Immunol. 118:1317-1321	
		COYLE et al., 1996, J. Exp. Med. 183:1303-1310	
		CRANAGE et al., 1986, EMBO J. 5:3057-3063	
MS		DAERON et al., 1986, J. Immunol. 136:1612-1619	

Examiner Signature	/Michael Szperka/	Date Considered	09/18/2006
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/088 (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number 10/645,913

Filing Date August 21, 2003

First Named Inventor Michael M. GRUNSTEIN

Art Unit 1641

Examiner Name Not yet known

Attorney Docket Number T1118/20102

Sheet 3 of 7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS		De KRUIF et al., 1995, J. Mol. Biol. 248:97-105	
		DELESPESE et al., 1992, Immunol. Rev. 125:78-97	
		FYNAN et al., 1993, Proc. Natl. Acad. Sci. U.S.A. 90:11478-11482	
		GAGRO et al., 1993, Int. Arch. Allergy. Immunol. 101:203-208	
		GALLI, 1993, N. Engl. J. Med. 328:257-265	
		GOLDIE et al., 1986, Br. J. Clin. Pharmacol. 22:669-676	
		HAKONARSON et al., 1995, Am. J. Physiol. (Lung Cell Mol. Physiol.) 269: L645-L652	
		HAKONARSON et al., 1997, J. Clin. Invest. 99:117-124	
		HAKONARSON et al. 1996, J. Clin. Invest. 97:2593-2600	
MS		JOSEPH et al., 1983, J. Clin. Invest. 71:221-230	

Examiner Signature	/Michael Szperka/	Date Considered	09/18/2006
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/645,913
Filing Date	August 21, 2003
First Named Inventor	Michael M. GRUNSTEIN
Art Unit	1641
Examiner Name	Not yet known
Attorney Docket Number	T1118/20102

Sheet 4

of 7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS		KAY, 1991, J. Allergy Clin. Immunol. 87:893	
		KAY et al., 1997, Proc. Natl. Acad. Sci. U.S.A. 94:12744-12746	
		KESSLER, 1975, J. Immunol. 115:1617-1624	
		KIKUTANI et al., 1986, Cell 47:657-665	
		LANTZ et al., 1997, Am. Assoc. of Immun. 2517-2521	
		LEE and CONRAD, 1986, J. Immunol, 136:4573-4580	
		LEE et al., 1987, J. Immunol, 139:1191-1198	
		LITCHFIELD and LEE, 1992, J. Asthma, 29:181-191	
		MALVEAUX et al., 1978, J. Clin. Invest. 62:176-181	
MS		MARKS et al., 1991 J. Mol. Biol. 222:581-597	

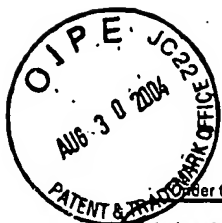
Examiner Signature	/Michael Szperka/	Date Considered	09/18/2006
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5

of

7

Complete if Known

Application Number	10/645,913
Filing Date	August 21, 2003
First Named Inventor	Michael M. GRUNSTEIN
Art Unit	1641
Examiner Name	Not yet known
Attorney Docket Number	T1118/20102

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS		MATSUMOTO et al., 1991, J. Exp.Med. 173:55-64	
		MATSUMOTO et al., 1987, Annal. Allergy. 58:261	
		MCFADDEN et al., 1994, Am. J. Respir. Crit. Care Med. 150:523-526	
		MCKENZIE et al., 1994, Current Opinion in Hematology 1:45-52	
		METZGER, 1992, Immunol. Rev. 125:37-48	
		MOSSALAYI et al., 1002, EMBO J. 11:4323-4328	
		NOVAERAL et al., 1992, Am. J. Physiol. (Lung Cell. Mol. Physiol) 263:L555-L561	
		PEARCE et al., 1990, Thorax 45:170-175	
		PUTNEY et al., 1983, Nature 302:718-721	
MS		RABATIC et al., 1993, Exp. Immunol. 94:337-340	

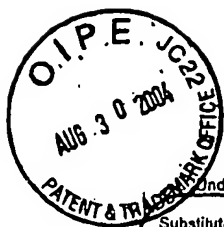
Examiner Signature	/Michael Szperka/	Date Considered	09/18/2006
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/645,913
		Filing Date	August 21, 2003
		First Named Inventor	Michael M. GRUNSTEIN
		Art Unit	1641
		Examiner Name	Not yet known
Sheet 6	of 7	Attorney Docket Number	T1118/20102

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS		SEARS et al., 1991, N. Engl. J. Med. 325:1067-1071	
		SESHARDI et al., 1993, J. Biol. Chem. 268:18474-18480	
		SPIEGELBERG and SIMON, 1981, J. Clin. Invest. 68:845-852	
		SUTTON and GOULD, 1993, Nature 366:421-428	
		TANAKA and GRUNSTEIN, 1990, J. Clin. Invest. 85:345-350	
		WALKER et al., 1992, Am. Rev. Respir. Dis. 146:109-115	
		WATSON et al., 1993, Am., J. Respir Cell Mol. Biol. 8:365-369	
		WEENINK et al., 1997, International Immunol. 9(6):889-896	
		WILLIAM et al., 1992, J. Immunol. 149:2823-2829	
MS		WOLFF et al., 1991, Biotechniques 11:474-485	

Examiner Signature	/Michael Szperka/	Date Considered	09/18/2006
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/088 (08-03)
Approved for use through 07/31/2008. OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/645,913
		Filing Date	August 21, 2003
		First Named Inventor	Michael M. GRUNSTEIN
		Art Unit	1641
		Examiner Name	Not yet known
Sheet 7	of 7	Attorney Docket Number	T1118/20102

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS		YAMAGUCHI et al., 1997, J. Exp. Med. 185:663-672	
I		ZABNER et al., 1994, Nat. Genet. 6(1):75-83	
I		YEI et al., 1994, Hum. Gen. Ther., 5(6):731-744	
MS		SHIAU et al., 2001, Cancer Gene Ther., 8(1):73-81	

Examiner Signature	/Michael Szperka/	Date Considered	09/18/2006
--------------------	-------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.